ELSEVIER

Comput. Methods Appl. Mech. Engrg. 121 (1995) 479–480

Computer methods in applied mechanics and engineering

Contents Volume 121

Volume 121, Nos. 1–4, March 1995

An analysis of the TRUNC element for coupled plates with rigid junction
L.-h. Wang 1

On the accuracies of numerical integration algorithms for Gurson-based pressure-dependent elastoplastic constitutive models
Z.L. Zhang 15

Explicit consistent tangent moduli with a return mapping algorithm for pressure-dependent elastoplasticity models
Z.L. Zhang 29

An orthonormal tangent space method for constrained multibody systems
W. Blajer 45

Random vibration of uniform beams with varying boundary conditions by the dynamic-edge-effect method
I. Elishakoff, Y.K. Lin and L.P. Zhu 59

Spectral super-elements for wave propagation in structures with local non-uniformities
S. Gopalakrishnan and J.F. Doyle 77

An automatic procedure with a control of accuracy for finite element analysis in 2D elasticity
P. Coorevits, P. Ladeveze and J.-P. Pelle 91

Conjugate Gradient-like solution algorithms for the Mixed Finite Element approximation of the Biharmonic Equation, applied to plate bending problems
M.B. van Gijzen 121

Recursive spectral algorithms for automatic domain partitioning in parallel finite element analysis
S.-H. Hsieh, G.H. Paulino and J.F. Abel 137

A direct boundary integral equations method to subsonic flow with circulation past thin airfoils in ground effect
L. Dragoş and A. Dinu 163

Numerical study of three multilevel preconditioners for solving 2D unsteady Navier–Stokes equations
R.E. Ewing, O.P. Iliev, S.D. Margenov and P.S. Vassilevski 177

Analysis of dynamic contact of cracks in viscoelastic media
J. Liu and S.K. Sharan 187

A regularized dual mixed element for plane elasticity. Implementation and performance of the BDM-element
O. Klaas, J. Schröder, E. Stein and C. Miehe 201

Stochastic boundary elements for two-dimensional potential flow in non-homogeneous media
I. Kaljević and S. Saigal 211

Surrogates for numerical simulations; optimization of eddy-promoter heat exchangers
S. Yeşilyurt and A.T. Patera 231

Topological design for vibrating structures
Z.-D. Ma, N. Kikuchi and H.-C. Cheng 259

A comparison of higher-bounded convection schemes
Seok Ki Choi, Ho Yun Nam and Mann Cho 281

Numerical solving of frictionless contact problems in perfectly plastic bodies
M. Burguera and J.M. Viaño 303

A unified approach for variationally consistent finite elements in elastoplasticity
C. Comi and U. Perego 323

Structural sensitivity analysis via reduced-order analytical model
R.M. Lin and M.K. Lim 345

An internal crack in a half-plane solid with clamped boundary
J.C. Sung and J.Y. Liou 361

Elastic-plastic analysis of arbitrary heterogeneous materials with the Voronoi Cell finite element method
S. Ghosh and S. Moorthy 373

Synthetic-structured finite element analysis of shells
D. Briassoulis 411

A parallel adaptive strategy for *hp* finite element computations
J.T. Oden and A. Patra 449

Author index of Volume 121 471

Subject index of Volume 121 473

Instructions to authors 477

Contents Volume 121 479